



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

September 10, 2010

Mr. Gerardo Rios  
Chief – Permits Office  
U. S. EPA, Region IX  
75 Hawthorne Street, Air 3  
San Francisco, CA 94105

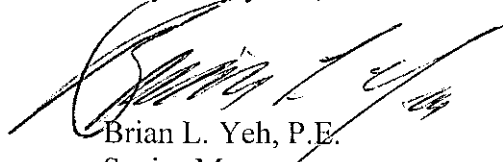
Dear Mr. Rios:

Subject: Arrowhead Regional Medical Center (ID 118379) – Title V Permit  
Revision

Arrowhead Regional Medical Center has proposed to revise their Title V permit by requesting to change a condition on their boilers by removing a reference to maintaining an oxygen concentration of 3% that was left on the permit in error. The hours allowed for testing and maintenance of the emergency engines was also extended to 30 hours per year for healthcare facilities in accordance with Rule 1470. This is a medical services facility located at 400 N Pepper Avenue, Colton, CA 92324. This proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review are the evaluation and permit for the proposed revision.

If you have any questions or need additional information regarding the proposed permit revision, please call Marcel Saulis at (909) 396-2093.

Very truly yours,



Brian L. Yeh, P.E.  
Senior Manager  
General Commercial & Energy Team

BLY:MBS

Attachments



## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **Facility Equipment and Requirements (Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

## FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR

### PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
493684	TBD	BOILER, NAT GAS & LPG, 26 MMBTU
493685	TBD	BOILER, NAT GAS & LPG, 26 MMBTU
493686	TBD	BOILER, NAT GAS & LPG, 26 MMBTU
329665	F9236	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329670	F9242	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329672	F9241	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329674	F9240	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329675	F9239	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329677	F9238	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
329678	F9237	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
349008	F20421	ETHYLENE OXIDE STERILIZER/AERATOR
349009	F20422	ETHYLENE OXIDE STERILIZER/AERATOR
349011	F46229	ETHYLENE OXIDE STERILIZATION CONTROL SYSTEM/CATALYTIC OXIDIZER

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **FACILITY WIDE CONDITION(S)**

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
  - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
  - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.  
[RULE 401]
2. THE OPERATOR SHALL ONLY USE ANY DIESEL FUEL WITH A SULFUR CONTENT THAT DOES NOT EXCEED 15 PPM BY WEIGHT.  
[RULE 431.2]
3. THE OPERATOR SHALL NOT USE OR SELL GASEOUS FUEL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED OVER FOUR HOURS.  
[RULE 431.1]

## FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR

### PERMIT TO OPERATE

Permit No. TBD  
A/N 493684

#### Equipment Description:

BOILER NO. 1, NEBRASKA, MODEL NO. NS-B-36, SERIAL NO. D-3297-G, RATED AT 26,000,000 BTU/HR, WITH ONE COEN LOW NOX BURNER, MODEL NO. SDAF-20N, NATURAL GAS AND LPG FIRED, AND EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS OR PROPANE ONLY.  
[RULE 1303 (a)(1)]
4. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[RULE 1146, RULE 1303 (a)(1)]
5. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND, IF APPLICABLE, RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE. THE OPERATOR SHALL MAINTAIN AND RETAIN TUNE-UP RECORDS FOR A PERIOD OF FIVE YEARS AND THEY SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1)]
6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1303 (a)(1)]
7. ONLY TWO OUT OF THE THREE NEBRASKA BOILERS NOS. 1, 2 AND 3 SHALL BE OPERATED SIMULTANEOUSLY.  
[RULE 1303 (b)(2)]

*Permit Nos.*

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

8. THE BOILER SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1146.  
[RULE 1146]

### **Periodic Monitoring:**

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
CO: 400 PPMV, RULE 1303 (a)(1)  
NOX: 30 PPMV, RULE 1303 (a)(1)

## FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR

### PERMIT TO OPERATE

Permit No. TBD  
A/N 493685

#### Equipment Description:

BOILER NO. 2, NEBRASKA, MODEL NO. NS-B-36, SERIAL NO. D-3298-G, RATED AT 26,000,000 BTU/HR, COEN LOW NOX BURNER, MODEL NO. SDAF-20N, NATURAL GAS AND LPG FIRED, AND EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS OR PROPANE ONLY.  
[RULE 1303 (a)(1)]
4. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[RULE 1146, RULE 1303 (a)(1)]
5. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND, IF APPLICABLE, RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE. THE OPERATOR SHALL MAINTAIN AND RETAIN TUNE-UP RECORDS FOR A PERIOD OF FIVE YEARS AND THEY SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1)]
6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1303 (a)(1)]
7. ONLY TWO OUT OF THE THREE NEBRASKA BOILERS NOS. 1, 2 AND 3 SHALL BE OPERATED SIMULTANEOUSLY.  
[RULE 1303 (b)(2)]

*Permit Nos*



## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

8. THE BOILER SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1146.  
[RULE 1146]

### **Periodic Monitoring:**

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
CO: 400 PPMV, RULE 1303 (a)(1)  
NOX: 30 PPMV, RULE 1303 (a)(1)

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. TBD  
A/N 493686**

#### **Equipment Description:**

BOILER NO. 3, NEBRASKA, MODEL NO. NS-B-36, SERIAL NO. D-3299-G, RATED AT 26,000,000 BTU/HR, COEN LOW NOX BURNER, MODEL NO. SDAF-20N, NATURAL GAS AND LPG FIRED, AND EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS OR PROPANE ONLY.  
[RULE 1303 (a)(1)]
4. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[RULE 1146, RULE 1303 (a)(1)]
5. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND, IF APPLICABLE, RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE. THE OPERATOR SHALL MAINTAIN AND RETAIN TUNE-UP RECORDS FOR A PERIOD OF FIVE YEARS AND THEY SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1)]
6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1303 (a)(1)]
7. ONLY TWO OUT OF THE THREE NEBRASKA BOILERS NOS. 1, 2 AND 3 SHALL BE OPERATED SIMULTANEOUSLY.  
[RULE 1303 (b)(2)]

## FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR

8. THE BOILER SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1146.  
[RULE 1146]

### Periodic Monitoring:

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]

### Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
CO: 400 PPMV, RULE 1303 (a)(1)  
NOX: 30 PPMV, RULE 1303 (a)(1)

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9236  
A/N 329665**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 376930, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9242  
A/N 329670**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 377127, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

**Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9241  
A/N 329672**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 376841, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9240  
A/N 329674**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 376829, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9239  
A/N 329675**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 377270, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9238  
A/N 329677**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 377269, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F9237  
A/N 329678**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL NO. 9203-7K16 (20V-149TI DDEC), DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, SERIAL NO. 376317, 20 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2925 BHP.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304 (a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, 1304 (a), RULE 1470]
5. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]

### **Emissions and Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES  
AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F20421  
A/N 349008**

#### **Equipment Description:**

ETHYLENE OXIDE STERILIZER/AERATOR, 3M STERI-VAC, MODEL NO. 5XL, SERIAL NO. 701023, 17" W. X 32.5" D. X 15" H. (INTERIOR DIMENTIONS), ELECTRICALLY HEATED.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A CONTROL DEVICE WITH AN EFFICIENCY OF 99% OR BETTER BY WEIGHT, PERSUANT TO THE SCAQMD RULE 1405.  
[RULE 1303 (a)(1), RULE 1405]
4. THE TOTAL ETHYLENE OXIDE (ETO) USED IN THIS EQUIPMENT SHALL NOT EXCEED EIGHT (8) OUNCES PER 24 HOURS OF OPERATION.  
[RULE 1401, RULE 1405]
5. A DAILY LOG INDICATING THE DATE, THE STERILIZATION CHAMBER IDENTIFICATION NUMBER, THE STERILIZATION CYCLE START-UP AND COMPLETION TIME, AND AMOUNT OF ETO USED SHALL BE RECORDED.  
[RULE 1401, RULE 1405]
6. THIS SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS USE.  
[RULE 1405]
7. RECORDS OF LEAK TESTS, AND OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1), RULE 1401, RULE 1405]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

ETHYLENE OXIDE: RULE 1401 AND RULE 1405

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F20422  
A/N 349009**

#### **Equipment Description:**

ETHYLENE OXIDE STERILIZER/AERATOR, 3M STERI-VAC, MODEL NO. 4XL, SERIAL NO. 521000, 18" W. X 24" D. X 16" H. (INTERIOR DIMENTIONS), ELECTRICALLY HEATED.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW  
[RULE 204].
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A CONTROL DEVICE WITH AN EFFICIENCY OF 99% OR BETTER BY WEIGHT, PERSUANT TO THE SCAQMD RULE 1405.  
[RULE 1303 (a)(1), RULE 1405]
4. THE TOTAL ETHYLENE OXIDE (ETO) USED IN THIS EQUIPMENT SHALL NOT EXCEED EIGHT (8) OUNCES PER 24 HOURS OF OPERATION.  
[RULE 1401, RULE 1405]
5. A DAILY LOG INDICATING THE DATE, THE STERILIZATION CHAMBER IDENTIFICATION NUMBER, THE STERILIZATION CYCLE START-UP AND COMPLETION TIME, AND AMOUNT OF ETO USED SHALL BE RECORDED.  
[RULE 1401, RULE 1405]
6. THIS SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS USE.  
[RULE 1405]
7. RECORDS OF LEAK TESTS, AND OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1), RULE 1401, RULE 1405]

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

ETHYLENE OXIDE:     RULE 1401 AND RULE 1405

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **PERMIT TO OPERATE**

**Permit No. F46229  
A/N 349011**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER, DONALDSON, MODEL 50SCFM, 2'-5" W. X 3'-5" L. X 2'-0" H., WITH AN AIR PREFILTER AND A CATALYTIC HEATER.
2. EXHAUST SYSTEM WITH A BLOWER AND A VACUUM PUMP VENTING TWO ETHYLENE OXIDE STERILIZERS.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL MAINTAIN A CONTROL EFFICIENCY OF 99% OR BETTER BY WEIGHT PURSUANT TO THE RULE 1405.  
[RULE 1303 (a)(1), RULE 1405]
4. THE TOTAL ETHYLENE OXIDE (ETO) DISCHARGED INTO THIS CONTROL SYSTEM SHALL NOT EXCEED 16 OUNCES PER 24 HOURS OF OPERATION.  
[RULE 1303 (a)(1), RULE 1401, RULE 1405]
5. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT AN ANNUAL SOURCE TEST PER AQMD RULE 1405, TO DETERMINE THE CONTROL EFFICIENCY OF THIS SYSTEM UNDER THE FOLLOWING CONDITIONS:
  - A) A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD (CARB) AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
  - B) A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT'S GENERAL COMMERCIAL TEAM AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

- C) THE SOURCE TESTS SHALL BE PERFORMED AT MAXIMUM ETO USE WHEN CHAMBER IS LOADED TO NO MORE THAN 50% OF ITS MAXIMUM LOADING CAPACITY. THE TEST SHALL START PRIOR TO PURGING OF THE CHAMBER AND SHALL NOT END BEFORE THE PURGE CYCLE IS COMPLETE.
- D) TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT'S GENERAL COMMERCIAL TEAM WITHIN 60 DAYS OF THE TESTS. THE REPORT SHALL INCLUDE THE FOLLOWINGS:
1. THE MASS AMOUNT OF ETO LOAD INTO STERILIZATION CHAMBER.
  2. THE STERILIZATION CHAMBER CAPACITY USAGE.
  3. EXHAUST FLOW RATE IN CFM.
  4. EXHAUST TEMPERATURES OF AIR STREAM AND CATALYST BED.
  5. ETO CONCENTRATION TO THE INLET OF SCRUBBER.
  6. ETO CONCENTRATION AT THE EXHAUST.

THE REPORT SHALL PRESENT THE EMISSION DATA IN PARTS PER MILLION (PPMV) ON DRY BASIS. THE DATA RECORDING FOR ETO CONCENTRATION AT INLET AND EXHAUST SHALL BE SIMULTANEOUS AT A FREQUENCY OF NOT GREATER THAN ONE MINUTE FOR PURGE CYCLE AND NOT GREATER THAN 10 MINUTES FOR AERATION CYCLE.

[RULE 304, RULE 1405]

6. THIS CONTROL SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THE SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS USE.  
[RULE 1405]
7. RECORDS OF LEAK TESTS, EFFICIENCY TESTS AND OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303 (a)(1), RULE 1405]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

ETHYLENE OXIDE: RULE 1401 AND RULE 1405

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, CHARBROILER.

#### **Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. DATE
  - B. DAILY OPERATING HOURS
  - C. DAILY AMOUNT OF MEAT COOKED (OR CASHIER'S RECEIPTS WHICH SHOW THE QUANTITY OF CHARBROILER PRODUCTS SOLD EACH DAY).  
[RULE 3004 (a) (4)]

#### **Emissions and Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
PM: 0.1 gr/scf, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
CO: 2000 PPMV, RULE 407  
PM: RULE 1138



## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, BOILERS, >1 MMBTU/HR <2 MMBTU/HR.

#### **Emissions and Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: 0.1 gr/scf, RULE 409  
NOX: 30 PPMV, RULE 1146.2  
CO: 400 PPMV, RULE 1146.2  
CO: 2000 PPMV, RULE 407

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

#### **Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN (g/l) OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN (g/l) OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a)(4)]

#### **Emissions and Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE ARROWHEAD REGIONAL MEDICAL CTR**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

#### **Emissions and Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



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	PROCESSED BY M SAULIS	CHECKED BY

## ENGINEERING EVALUATION FOR TITLE V PERMIT REVISION

### COMPANY NAME AND ADDRESS

Arrowhead Regional Medical Center  
400 North Pepper Avenue  
Colton, CA 92324-1817

CONTACT: Michael Heine, Facilities Manager, (909) 580-0085  
Kimba Spencer, Consultant, (562) 961-3494

### EQUIPMENT LOCATION

AQMD ID 118379  
Same address as above

### BACKGROUND/SUMMARY

Arrowhead Regional Medical Center (ARMC) submitted an application to revise their Title V permit, along with three applications for administrative changes. ARMC is requesting the following permit actions:

- Incorporate Rule 1470 testing and maintenance requirements that allow an additional 10 hours per year for health facilities
- Change of condition on the boiler permits by removing the reference to maintaining the oxygen concentration at 3%

Each permit action is discussed in more detail below:

#### Additional Hours for Testing and Maintenance at Health Facilities

Rule 1470 was adopted on 4/2/04 and it reduced the number of hours allowed for testing and maintenance of existing emergency diesel engines that emit high emissions of particulates. The rule also required more stringent standards for new engines and engines installed in close proximity to schools or school grounds. The Rule was amended on 11/3/06 to allow an additional 10 hours of testing and maintenance for engines located at health facilities (Rule 1110.2(c)(3)(C)(i)(I)); which fall under the jurisdiction the California Office of Statewide Planning and Development (OSHDP). OSHDP is responsible for ensuring that a high level of standards are enacted and maintained at health facilities to ensure quality service. The emergency engines located at health facilities are required by OSHDP to be tested on a more frequent basis, than what was initially allowed by the 4/2/04 version of Rule 1470, to ensure they will be reliably activated in the event of an emergency.

The Initial Title V permit for ARMC was issued on 5/31/05. At the time of issuance, a limit of 20 hours per year for maintenance and testing was put on the permit to ensure compliance with Rule 1470. A Compliance Plan was required for facilities with 4 or more engines by 7/1/05. ARMC owns and operates 7 emergency diesel engines – permit numbers: F9236, F9237, F9238, F9239, F9240, F9241 & F9242. In the absence of a Compliance Plan, the District made the assumption – based on extensive

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outreach efforts to educate the regulated community on the rule requirements – that that these facilities chose to comply with Rule 1470 by restricting hours of operation. In addition, before any initial title V permit is issued, the facility is provided with a final draft to review permit conditions accordingly. ARMC did not submit a Rule 1470 Compliance Plan and they made no comments on the draft permit that was issued. It wasn't until, District Enforcement staff conducted an annual Title V inspection at the facility 8/7/08 that resulted in a NOV, P53801, for exceeding their allowable hours of operation for testing and maintenance, as well as for failure to have a control system on the boilers that maintains exhaust gas oxygen concentrations at 3%, that ARMC submitted an application to request the 30 hours allowed per the rule. This is not considered to result in an increase in emissions.

*Boiler Applications to remove reference to maintaining O2 concentration below 3%*

As discussed above, ARMC received a NOV for operating its three (3) boilers – permit numbers F21235, F21236, & F21237 – without a control system capable of maintaining the oxygen concentration at 3% as was required by condition no .5 on the permit:

“AIR FUEL SUPPLIED TO THIS BOILER, AND FLUE GAS RECIRCULATION SYSTEM SHALL BE AUTOMATICALLY CONTROLLED SUCH THAT OXYGEN CONTENT IN THE EXHAUST GAS REMAIN UNDER 3% BY VOLUME...”

The consultant stated that in discussions with the manufacturer, all the equipment that was proposed in the original package had been installed at the time the original Permits to Construct were issued in 1997, except the oxygen trim system. According to the applicant, they never went ahead and installed the oxygen trim system as they indicated that it was not required at the time of original permit issuance and installation.

The original submittal package and engineering evaluation, A/N 329647, was retrieved from the District Liberty database, and it revealed that ARMC had sent a letter, dated 12/16/98, to the attention of Hassan Namaki, Air Quality Engineer, to specifically delete the requirement to maintain oxygen concentrations at 3% and that the control systems to monitor oxygen concentrations were never installed on the boilers. The District went ahead and issued the Permits to Operate after the review of the initial source test results without addressing the letter or the condition, so the condition remained on the permits. The rule reference for the condition is Rule 1306(a) – BACT, which means that the condition was placed on the permit, based on the applicant's proposal, to ensure that the boilers operate in compliance on a continual basis. Since the oxygen trim system was not installed on the equipment, the condition will have to be replaced with a condition to ensure that the boilers are in compliance with the equipment that was installed.

As a part of the evaluation process for this project, ARMC was requested to provide the results of the most recent source test and tune-up. The data they provided revealed that the boilers are complying with the current emission limits of Rule 1146; 30 ppmvd –NOx and 400 ppmvd-CO, both corrected to 3% O2.<sup>1</sup> The boilers are being tuned on a regular basis to ensure that they are operating at optimal levels. Therefore, in lieu of the 3% oxygen requirement the following condition will replace the oxygen trim condition on the Title V permit to ensure continued compliance:

<sup>1</sup> The more stringent emission limits required by Rule 1146 – amended 9/5/08 – become effective 1/1/12 for this equipment.

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"THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL AND, IF APPLICABLE, RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE. THE OPERATOR SHALL MAINTAIN AND RETAIN TUNE-UP RECORDS FOR A PERIOD OF FIVE YEARS AND THEY SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST."

The change results in no increase in emissions and will be processed as minor TV permit revision subject to EPA 45 day review.

### **COMPLIANCE REVIEW**

The facility has a Title V permit and is subject to annual inspections conducted by District Enforcement staff. As discussed in the Background/Summary section, the facility was inspected on 8/7/08 that resulted in the District issuing NOV P53801 for exceeding the allowable hours of testing and maintenance for the engines and for not having an automatic control system that maintained the oxygen concentration to less than 3% in the exhaust gas. These applications are intended to remedy the NOV that was issued by increasing the testing hours for the engines to what is allowed by Rule 1470 and to correct the equipment description for the boilers.

### **EMISSION CALCULATIONS**

There are no changes in emissions associated with changing the hours on the permit for testing and maintenance or for replacing the condition that references the automatic control system; therefore, no emission calculations are required.

### **RULES EVALUATION**

#### **RULE 212-STANDARDS FOR APPROVING PERMITS AND ISSUING PUBLIC NOTICES**

Rule 212 requires that a person shall not build, erect, install, alter, or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants without first obtaining written authorization for such construction from the Executive Officer. Rule 212(c) states that a project requires written notification if there is an emission increase for ANY criteria pollutant in excess of the daily maximums specified in Rule 212(g), if the equipment is located within 1,000 feet of the outer boundary of a school, or if the MICR is equal to or greater than one in a million ( $1 \times 10^6$ ) during a lifetime (70 years) for facilities with more than one permitted unit, source under Regulation XX, or equipment under Regulation XXX, unless the applicant demonstrates to the satisfaction of the Executive Officer that the total facility-wide maximum individual cancer risk is below ten in a million ( $10 \times 10^6$ ) using the risk assessment procedures and toxic air contaminants specified under Rule 1402; or, ten in a million ( $10 \times 10^6$ ) during a lifetime (70 years) for facilities with a single permitted unit, source under Regulation XX, or equipment under Regulation XXX. There is no increase in emissions associated with this project; therefore, a public notice is not required for this project.

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#### RULE 401 - VISIBLE EMISSIONS

This rule limits visible emissions to an opacity of less than 20 percent (Ringlemann No.1), as published by the United States Bureau of Mines. It is unlikely, with the proper operation of the equipment in accordance with the manufacturer's guidelines that there will be visible emissions. However, in the unlikely event that visible emissions do occur, anything greater than 20 percent opacity is not expected to last for greater than 3 minutes. During normal operation, no visible emissions are expected. Therefore, compliance with this rule is expected.

#### RULE 402 - NUISANCE

This rule requires that a person not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which cause, or have a natural tendency to cause injury or damage to business or property. With proper operation, the emergency engines or boilers are not expected to cause nuisance; therefore, compliance with this rule is expected.

#### RULE 404 - PARTICULATE MATTER - CONCENTRATION

The purpose of the rule is to prohibit the discharge into the atmosphere of particulate matter in excess of the concentrations shown in Table 404(a). There is no change in the method of operation of these units, the boilers will continue to be fired on natural gas and engines will continue to use low sulfur diesel fuel; therefore, continued compliance is expected.

#### RULE 407 - LIQUID AND GASEOUS AIR CONTAMINANTS

This rule limits CO emissions to 2,000 ppmvd and SO<sub>2</sub> emissions to 500 ppmvd, averaged over 15 minutes. The CO emissions from the boilers are regulated by Rule 1146 so the limits are exempt from the CO limits of Rule 407. For SO<sub>2</sub>, equipment which complies with Rule 431.2 is exempt from the SO<sub>2</sub> limit in Rule 407. The applicant will be required to comply with Rules 431.1 and thus the SO<sub>2</sub> limit in Rule 407 will not apply. Stationary internal combustion engines are exempt from the requirements of this rule. Compliance with this rule is expected.

#### RULE 409 - COMBUSTION CONTAMINANTS

This rule restricts the discharge of contaminants from the combustion of fuel to 0.1 grain per cubic foot of gas, calculated to 12% CO<sub>2</sub>, averaged over 15 minutes. There is no change in operation of the existing equipment; therefore, continued compliance with this rule is expected.

#### RULE 431.1-SULFUR CONTENT OF GASEOUS FUELS

The boilers use pipeline quality natural gas which complies with the 16 ppm sulfur limit, calculated as H<sub>2</sub>S, specified in this rule. Natural gas will be supplied by the Southern California Gas Company which has a H<sub>2</sub>S content of less 0.25 gr/100scf, which is equivalent to a concentration of about 4 ppm. Compliance is expected. The applicant will comply with the reporting and record keeping requirements as outlined in subdivision (e) of this Rule.

#### RULE 1146 - EMISSIONS OF OXIDES OF NITROGEN FROM INDUSTRIAL, INSTITUTIONAL, AND COMMERCIAL BOILERS, STEAM GENERATORS, AND PROCESS HEATERS

The boilers are rated at 26 MMBtu/hr and are subject to the requirements of this rule.

The following sections are applicable:



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(c)(1)(A) The boilers are subject to 30 ppmvd-NO<sub>x</sub> corrected to 3% O<sub>2</sub>. Data provided by the facility demonstrates compliance.

(c)(1)(G) ARMC has three boilers (Group II units), thus they will have to provide a compliance plan by January 1, 2010 and permit applications by January 1, 2001. All three boilers have to be in compliance by January 1, 2012, as the rule requires that at least 75% of the units have to be in compliance. Thus in order to comply, all three units have to be in compliance.

(c)(4) From source test data, the boilers meet the 400 ppmvd @ 3% O<sub>2</sub> required by this section.

(d)(2) Compliance testing shall be conducted in an as-found state at least 250 operating hours or 30 days subsequent to tuning or servicing.

(d)(6)(A) Source tests shall be conducted once every three years.

(d)(7)(A) Periodic monitoring as required by Title V shall be allowed to show compliance with (d)(6).

(d)(8)(A) On or after July 1, 2009, portable analyzer testing shall be conducted monthly or 750 operating hours, whichever is later. In the event that three (3) consecutive tests show compliance, testing shall be allowed to be conducted quarterly or 2000 operating hours, whichever occurs later.

(e)(5) The District can grant an extension to ARMC will be allowed an extension to meet the emission limits in subparagraph (c)(1)(G), provided that ARMC was granted an extension from OSHPD to comply with seismic safety requirements pursuant to Health & Safety Code sections 130060 and 13061.5.

#### REGULATION XIII – NEW SOURCE REVIEW (NSR)

There is no increase in emissions associated with this project; therefore, new source review requirements for BACT, Modeling or Offsets are triggered. Therefore, NSR is not applicable.

#### RULE 1401 – NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

This rule is applicable to applications deemed complete on or after June 1, 1990 and it imposes specific limits for maximum individual cancer risk (MICR), cancer burden, and non-cancer acute and chronic hazard indices from new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants (TAC) listed in Table I of Rule 1401. The rule establishes allowable risks for permit units requiring new permit pursuant to Rules 201 or 203. The project will result in no increase in emissions; therefore, the requirements of this rule are not applicable.

#### RULE 1470 - REQUIREMENTS FOR STATIONARY DIESEL-FUELED INTERNAL COMBUSTION AND OTHER COMPRESSION IGNITION ENGINES

(c)(3)(A) Operation of the engines in response to impending outages will only be allowed if criteria outlined in (c)(2)(B)(i) to (c)(2)(B)(v) are met.

(c)(3)(B) The engines are located at distances greater than 500 feet from the outer boundary of any K-12 schools; therefore, no operational restrictions will be placed on the permit.

(c)(3)(C)(i)(I) The engines are located at a Health Facility; therefore, they are allowed an additional 10 hours per year for testing and maintenance on top of the 20 hours allowed, for a total of 30 hours per year.

(c)(3)(C)(iii) The engines are located at a distance greater than 100 meters from the outer boundary of any K-12 school; therefore, further PM reduction is not required.

(d)(7)(A) The engines are required to have a non-resettable hour meter.

(d)(9) The facility will be required to maintain applicable recordkeeping, monitoring, and reporting requirements for the equipment.

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**RULE 1472 – REQUIREMENTS FOR FACILITIES WITH MULTIPLE STATIONARY EMERGENCY STANDBY DIESEL-FUELED INTERNAL COMBUSTION ENGINES**

This rule applies to facilities with three (3) or more stationary emergency standby diesel-fueled engines. ARMC has seven (7) engines located at the facility; therefore, the requirements of this rule are applicable. Table 4 shows the compliance schedule for Health Facilities. A Rule 1472 compliance plan does not have to be submitted until January 1, 2011.

**REGULATION XXX – TITLE V PERMITS**

The initial Title V permit, A/N 381347, was issued on 5/31/05.

**RULE 3003 - APPLICATIONS**

The “minor permit revision” is expected to comply with all applicable requirements of this rule.

(i)(4) The minor revision will be issued only after the permit revision application has been found to comply with all conditions of this rule.

(j) EPA review will be required for the minor revision.

**RULE 3005 – PERMIT REVISIONS**

(c) The proposed minor permit revision satisfies all the applicable conditions listed in this rule. The modification constitutes an “minor permit revision” as defined in Rule 3000(b)(12).

**RULE 3006 – PUBLIC PARTICIPATION**

(b) The proposed “minor permit revision” is exempt from public participation.

**RECOMMENDATION(S)**

The application is expected to comply with all applicable District Rules and Regulations. The issuance of a revised Title V permit reflecting the change for the boilers and emergency engine conditions per Rule 1470 requirements are recommended.

An Updated Section D of the Title V facility permit is in the attached draft permit.